

Serial No. 09/726,401

Docket No. HI-028

**IN THE CLAIMS:**

A. Please amend claims 1-4, 7, 9, 11 and 13 as follows:

**B. Please add new claims 14-26 as follows:**

SUB BIO 7 14. (New) The multimedia data structure of claim 13, wherein the weight is updated based on the following:

(b) the more times the previous feature weights are learned with the feedbacks from the user, the less the feature weights are influenced by new feedback; and

(c) the more recent the feedback is, the more the feedback influence to the feature weights update.

AI3 15. (New) The multimedia data structure of claim 13, wherein the learning rate is in relation to the reliability formula,  $[\text{Reliability}^a \times \text{Old\_W} + \text{Cur\_W}] / [\text{Reliability}^a + 1]$  wherein,  $0 < a < 1$ , and exponential term "a" in the formula for weights of features is less than exponential term "a" in the formula for weights of elements of a feature.

16. (New) The method of claim 11, wherein the weight is updated based on the following:

(b) the more times the previous feature weights are learned with the feedbacks from the user, the less the feature weights are influenced by new feedback; and

(c) the more recent the feedback is, the more the feedback influence to the feature weights update.

17. (New) The method of claim 1, wherein the updating the weight of the multimedia feature information comprises:

updating the weights among the multimedia feature information; and

updating weights among elements in a multimedia feature, wherein the multimedia weights learned with frequent feedbacks are relatively less influenced by a new feedback, and wherein recent feedback influences the multimedia weights relatively more than less recent feedback.

18. (New) The method of claim 1, wherein the updating the weight of the multimedia feature information comprises determining a weight-learning rate among the multimedia features that is relatively higher than a weight learning rate among elements of a multimedia feature.

19. (New) The method of claim 1, wherein the reliability is calculated by a formula:

previous reliability  $\times$  (1 + reliability increment)

wherein,

reliability increment: a function that multiplies the difference between the present and previous retrieval performance with the number of feedbacks.

20. (New) The method of claim 1, wherein the retrieval performance is evaluated using the multimedia feature information for at least one multimedia item returned by a query of searchable multimedia items.

21. (New) The method of claim 1, wherein the reliability is calculated by a formula:  
$$\text{previous reliability} \times (1 + \text{reliability increment})$$

wherein,

reliability increment: a function that multiplies the rate of the present retrieval performance to the previous retrieval performance with the number of feedbacks.

A13 22. (New) The method of claim 1, wherein the updating the reliability of the weight comprises:

1) wherein when a feedback increases, the more the retrieval performance calculated from the feedback influences to the reliability;

2) wherein when the retrieval performance is not high, the retrieval performance calculated from a present feedback influence to the reliability update is in proportional to the reliability level; and

3) wherein when the present retrieval performance is higher than the previous retrieval performance, the reliability increases, and otherwise the reliability decreases.

23. (New) The method of claim 2, wherein the results of the multimedia retrieval is a set of multimedia objects, and wherein the calculated retrieval performance is based on a plurality of multimedia objects in the set.

24. (New) The method of claim 2, wherein the one or more user feedbacks independently update the present weight and the reliability of the present weight.

A13 25. (New) The method of claim 2, wherein said retrieving multimedia using previous weight comprises querying a searchable set including multimedia data using said previous weight.

26. (New) The multimedia data structure of claim 10, wherein the present weight is updated using the one or more user feedbacks.